

Fri Mar 19 13:19:41 2004

us-09-989-981a-4.rapb

Page 1

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: March 17, 2004, 18:47:23 ; Search time 25.8652 Seconds

(without alignments)
6853.183 Million cell updates/sec

Title: US-09-989-981a-4

Perfect score: 3494

Sequence: 1 MAEKTEKEFTQWNGTVLQDA.....FLFYVLSLKIKKSIQDW 672

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1045404 seqs, 257433775 residues

Total number of hits satisfying chosen parameters: 1045404

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
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18: /cgn2_6/ptodata/1/pubpaa/US00_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3494	100.0	672	US-09-989-981a-4	Sequence 4, Appl1
2	2883.5	82.5	673	US-09-989-981a-8	Sequence 8, Appl1
3	2879.5	82.4	673	US-10-090-455-7	Sequence 7, Appl1
4	1508.5	43.2	374	US-10-415-378-9	Sequence 9, Appl1
5	753	21.6	725	US-10-424-599-175941	Sequence 1, Appl1
6	701.5	20.1	652	US-09-837-992-1	Sequence 2, Appl1
7	701.5	20.1	652	US-09-989-981a-2	Sequence 3, Appl1
8	697	19.9	651	US-09-837-992-3	Sequence 6, Appl1
9	697	19.9	651	US-09-989-981a-6	Sequence 6, Appl1
10	697	19.9	651	US-10-090-455-6	Sequence 6, Appl1
11	672.5	19.2	657	US-09-866-866a-14	Sequence 14, Appl1
12	659.5	18.9	655	US-09-981-353-35	Sequence 35, Appl1
13	659.5	18.9	655	US-10-120-687-61	Sequence 2, Appl1
14	659.5	18.9	655	US-10-405-806-2	Sequence 1, Appl1
15	657.5	18.8	655	US-09-961-086-1	Sequence 1, Appl1

16	657.5	18.8	655	US-10-405-806-13	Sequence 13, Appl1
17	655	18.7	655	US-09-866-866a-10	Sequence 10, Appl1
18	655	18.7	655	US-10-090-455-5	Sequence 5, Appl1
19	651.5	18.6	655	US-09-866-866a-27	Sequence 27, Appl1
20	639	18.3	638	US-10-072-621-10	Sequence 10, Appl1
21	638	18.3	674	US-10-090-455-4	Sequence 4, Appl1
22	638	18.3	674	US-10-429-160-10	Sequence 10, Appl1
23	630.5	18.0	663	US-10-108-605-245	Sequence 245, Appl1
24	619	17.7	623	US-10-424-599-154459	Sequence 154459, Appl1
25	616.5	17.6	695	US-10-424-599-176182	Sequence 176182, Appl1
26	605	17.3	599	US-10-210-130-14	Sequence 14, Appl1
27	601	17.2	819	US-10-425-114-54421	Sequence 54421, Appl1
28	598	17.1	1095	US-10-369-493-2025	Sequence 2025, Appl1
29	590	16.9	545	US-10-083-357-1335	Sequence 1335, Appl1
30	581.5	16.6	559	US-10-369-493-5740	Sequence 5740, Appl1
31	573.5	16.4	676	US-10-369-493-3799	Sequence 3799, Appl1
32	567	16.2	1084	US-10-424-599-242078	Sequence 242078, Appl1
33	567	16.2	1101	US-10-425-114-63125	Sequence 63125, Appl1
34	566.5	16.2	1049	US-10-369-493-1520	Sequence 1520, Appl1
35	563.5	16.1	627	US-10-090-455-8	Sequence 8, Appl1
36	562.5	16.1	656	US-10-154-452-4	Sequence 4, Appl1
37	562.5	16.1	666	US-10-425-114-53846	Sequence 53846, Appl1
38	562.5	16.1	673	US-10-425-114-64380	Sequence 64380, Appl1
39	562	16.1	658	US-10-369-493-5347	Sequence 5347, Appl1
40	560.5	16.0	646	US-10-154-452-8	Sequence 8, Appl1
41	560.5	16.0	646	US-10-090-455-13	Sequence 13, Appl1
42	557.5	16.0	646	US-10-072-621-9	Sequence 9, Appl1
43	557.5	16.0	646	US-10-090-455-2	Sequence 2, Appl1
44	548	15.7	469	US-10-425-114-39525	Sequence 39525, Appl1
45	539.5	15.4	646	US-10-079-087-2	Sequence 2, Appl1

ALIGNMENTS

RESULT 1
US-09-989-981a-4
Sequence 4, Application US/09989981A
Publication No. US20030049730A1
GENERAL INFORMATION:
APPLICANT: Hobbs, Helen H.
APPLICANT: Shan, Bei
APPLICANT: Barnes, Robert
APPLICANT: Tian, Hui
APPLICANT: Tularik Inc.
APPLICANT: Board of Regents, The University of Texas System
TITLE OF INVENTION: ABCGs and ABCGs: Compositions and Methods of Use
FILE REFERENCE: 016781-007320US
CURRENT APPLICATION NUMBER: US/09/989, 981A
CURRENT FILING DATE: 2002-07-23
PRIOR APPLICATION NUMBER: US 60/252,235
PRIOR FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: US 60/253,645
PRIOR FILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 13
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 4
LENGTH: 672
TYPE: PRT
ORGANISM: Mus musculus
FEATURE:
OTHER INFORMATION: mouse ABCGs (mABCGs)
US-09-989-981a-4
Query Match 100.0%; Score 3494; DB 10; Length 672;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 672; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MAEKTEKEFTQWNGTVLQDASGLDPSFSSSDNSLYFTYSGQNTLEVDLTYQVDIAS 60
Db 1 MAEKTEKEFTQWNGTVLQDASGLDPSFSSSDNSLYFTYSGQNTLEVDLTYQVDIAS 60
QY 61 QYPMFEQALQAFKIPKSHSSDSCSLGRNLSFKVRSGQMLAIIGSGCGRASLDIVTIG 120

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Db 61 QVWFEDLQAFKIPMRSHSODSCGIRLRSFKVSGQMLAIGSSGCGRASLIDVITG 120
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Db 121 RGHGKXKSGQIWINQOPSTPOLVRKCAVAVRQHDQLPMLTRETAFIAQRLPRTFS 180
QY 181 QAQRDKREVDVIAELRLQOCANTRVGNTYVRGVSGGERRRVSIGVOLNMPGILIDEP 240
Db 181 QAQRDKREVDVIAELRLQOCANTRVGNTYVRGVSGGERRRVSIGVOLNMPGILIDEP 240
QY 241 SGDSFTAHNLVTTLSLAKGNRLVLSLHQPBSDIFRLFDVLMTSGPTIYGAAGQM 300
Db 241 SGDSFTAHNLVTTLSLAKGNRLVLSLHQPBSDIFRLFDVLMTSGPTIYGAAGQM 300
QY 301 VOYFTSIGHPCPRYSNPADFYVDLTSIDRSKEREVATVEKAQSLALFEKVQGFDEL 360
Db 301 VOYFTSIGHPCPRYSNPADFYVDLTSIDRSKEREVATVEKAQSLALFEKVQGFDEL 360
QY 361 WKAEKELNTHSTHTVSLTLTQDTCGTAVELPGMIEQFSTLIRROISNDRDLPTLIIG 420
Db 361 WKAEKELNTHSTHTVSLTLTQDTCGTAVELPGMIEQFSTLIRROISNDRDLPTLIIG 420
QY 421 SEACLMBSLIIIGFLYGGAKQLSPMDTALLFMIGALIPNVILIDVYSKCHSERSMLYE 480
Db 421 SEACLMBSLIIIGFLYGGAKQLSPMDTALLFMIGALIPNVILIDVYSKCHSERSMLYE 480
QY 481 LEDGLYTAGPYFFAKIIGELPEHCAYIITYAMPYMLTNRPVDELFLHFLVWLVEFC 540
Db 481 LEDGLYTAGPYFFAKIIGELPEHCAYIITYAMPYMLTNRPVDELFLHFLVWLVEFC 540
QY 541 CRTMALASAMLPTEHNSFFCNALYNSFYLTAGFMINDLMTVPAMISKLSFLRWCFS 600
Db 541 CRTMALASAMLPTEHNSFFCNALYNSFYLTAGFMINDLMTVPAMISKLSFLRWCFS 600
QY 601 GLMOIQFNGHLVTTQIGNFTSIIIGDTMISAMDNLSHPLVAYIIVIGISYGFELVYLS 660
Db 601 GLMOIQFNGHLVTTQIGNFTSIIIGDTMISAMDNLSHPLVAYIIVIGISYGFELVYLS 660
QY 661 LKLIKOKSIQDM 672
Db 661 LKLIKOKSIQDM 672

RESULT 2
US-09-989-981a-8
; Sequence 8, Application US/09989981A
; Publication No. US20030049730A1
; GENERAL INFORMATION:
; APPLICANT: Hobbs, Helen H.
; APPLICANT: Shan, Bei
; APPLICANT: Barnes, Robert
; APPLICANT: Tian, Hui
; APPLICANT: Tularik Inc.
; APPLICANT: Board of Regents, The University of Texas System
; TITLE OF INVENTION: ABCG5 and ABCG8: Compositions and Methods of Use
; FILE REFERENCE: 018781-007320US
; CURRENT APPLICATION NUMBER: US/09/989,981A
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: US 60/252,235
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/253,645
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 673
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: human ABCG8 (hABCG8)
US-09-989-981a-8
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Best Local Similarity 81.9%; Pred. No. 2,26-266;
Matches 551; Conservative 52; Mismatches 69; Indels 1; Gaps 1;

QY 1 MAEKTEBTOAMNTVLODASGLQDSLFSEESDNLXYFTYSGQNTLEVDLTYYQVDIAS 60
Db 1 MAGKAABERGLPKKATQODISGLQDRLFSEESDNLXYFTYSGQNTLEVDLTYYQVDIAS 60
QY 61 QVWFEDLQAFKIPMRSHSODSCGIRLRSFKVSGQMLAIGSSGCGRASLIDVITG 120
Db 61 QVWFEDLQAFKIPMRSHSODSCGIRLRSFKVSGQMLAIGSSGCGRASLIDVITG 120
QY 121 RGHGKXKSGQIWINQOPSTPOLVRKCAVAVRQHDQLPMLTRETAFIAQRLPRTFS 180
Db 121 RGHGKXKSGQIWINQOPSTPOLVRKCAVAVRQHDQLPMLTRETAFIAQRLPRTFS 180
QY 181 QAQRDKREVDVIAELRLQOCANTRVGNTYVRGVSGGERRRVSIGVOLNMPGILIDEP 240
Db 181 QAQRDKREVDVIAELRLQOCANTRVGNTYVRGVSGGERRRVSIGVOLNMPGILIDEP 240
QY 241 SGDSFTAHNLVTTLSLAKGNRLVLSLHQPBSDIFRLFDVLMTSGPTIYGAAGQM 300
Db 241 SGDSFTAHNLVTTLSLAKGNRLVLSLHQPBSDIFRLFDVLMTSGPTIYGAAGQM 300
QY 301 VOYFTSIGHPCPRYSNPADFYVDLTSIDRSKEREVATVEKAQSLALFEKVQGFDEL 360
Db 301 VOYFTSIGHPCPRYSNPADFYVDLTSIDRSKEREVATVEKAQSLALFEKVQGFDEL 360
QY 361 WKAEKELNTHSTHTVSLTLTQDTCGTAVELPGMIEQFSTLIRROISNDRDLPTLIIG 420
Db 361 WKAEKELNTHSTHTVSLTLTQDTCGTAVELPGMIEQFSTLIRROISNDRDLPTLIIG 420
QY 421 SEACLMBSLIIIGFLYGGAKQLSPMDTALLFMIGALIPNVILIDVYSKCHSERSMLYE 480
Db 421 SEACLMBSLIIIGFLYGGAKQLSPMDTALLFMIGALIPNVILIDVYSKCHSERSMLYE 480
QY 481 LEDGLYTAGPYFFAKIIGELPEHCAYIITYAMPYMLTNRPVDELFLHFLVWLVEFC 540
Db 481 LEDGLYTAGPYFFAKIIGELPEHCAYIITYAMPYMLTNRPVDELFLHFLVWLVEFC 540
QY 540 CCRMALASAMLPTEHNSFFCNALYNSFYLTAGFMINDLMTVPAMISKLSFLRWCFS 599
Db 541 CCRMALASAMLPTEHNSFFCNALYNSFYLTAGFMINDLMTVPAMISKLSFLRWCFS 600
QY 600 GLMOIQFNGHLVTTQIGNFTSIIIGDTMISAMDNLSHPLVAYIIVIGISYGFELVYLS 659
Db 601 GLMOIQFNGHLVTTQIGNFTSIIIGDTMISAMDNLSHPLVAYIIVIGISYGFELVYLS 660
QY 660 SLKLIKOKSIQDM 672
Db 661 SLKLIKOKSIQDM 673

RESULT 3
US-10-090-455-7
; Sequence 7, Application US/10090455
; Publication No. US20030027259A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Hongyun
; APPLICANT: Le Bilhan, Stephane
; TITLE OF INVENTION: NOVEL ABCG4 TRANSPORTER AND USES THEREOF
; FILE REFERENCE: 100103,406
; CURRENT APPLICATION NUMBER: US/10/090,455
; CURRENT FILING DATE: 2002-03-01
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 673
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-090-455-7

Query Match 82.4%; Score 2879.5; DB 14; Length 673;
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Page 3

Best Local Similarity 81.7%; Pred. No. 5,36-266;
Matches 550; Conservative 52; Mismatches 70; Indels 1; Gaps 1;
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DB 301 VOYFTSIGHPCPRYSNPADFYVDLTSIDRSKEREVAIVEKASLALFLEKVGQFDFL 360
QY 361 WKAELKNTSTHTVSLTLTODTDC-GTAVELPGMEQSTLIRROISNDFRDLPTLLH 419
DB 361 WKAELKNTSTHTVSLTLTODTDC-GTAVELPGMEQSTLIRROISNDFRDLPTLLH 419
QY 420 GSEACIMSLIIGLYYGHGAKQSLFMDTALLFMIGALIPFNVLIDVYKCHSERSMY 479
DB 420 GSEACIMSLIIGLYYGHGAKQSLFMDTALLFMIGALIPFNVLIDVYKCHSERSMY 479
QY 481 ELEDGLYTAGPYFAKILGELPCHCAVYIYAMPITWLNLRPVELFLHLFLWLVLV 539
DB 481 ELEDGLYTAGPYFAKILGELPCHCAVYIYAMPITWLNLRPVELFLHLFLWLVLV 539
QY 540 CCRTMALAASAMPTFHMSSEFCNALYNSFYLTAGFMINDMIVPAMISKLSFLRWC 599
DB 540 CCRTMALAASAMPTFHMSSEFCNALYNSFYLTAGFMINDMIVPAMISKLSFLRWC 599
QY 600 SGIMQIQFNHLYTTOIGNFTSILGDTMISANDLSHPLVLYLVIGISYGLFLY 659
DB 600 SGIMQIQFNHLYTTOIGNFTSILGDTMISANDLSHPLVLYLVIGISYGLFLY 659
QY 660 SLKTIKOKSIQDM 672
DB 660 SLKTIKOKSIQDM 672

FILE REFERENCE: PI-0270 USN
CURRENT APPLICATION NUMBER: US/10/415,378
CURRENT FILING DATE: 2003-05-07
PRIOR APPLICATION NUMBER: PCT/US01/46055
PRIOR FILING DATE: 2001-10-27
PRIOR APPLICATION NUMBER: US 60/250,790
PRIOR FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: US 60/252,232
PRIOR FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: US 60/249,661
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: US 60/247,673
PRIOR FILING DATE: 2000-11-09
PRIOR APPLICATION NUMBER: US 60/245,904
PRIOR FILING DATE: 2000-11-03
PRIOR APPLICATION NUMBER: US 60/243,989
PRIOR FILING DATE: 2000-10-27
NUMBER OF SEQ ID NOS: 40
SOFTWARE: PERL Program
SEQ ID NO: 9
LENGTH: 374
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: Incyte ID No. US20040014945A1 6585710CD1
US-10-415-378-9
Query Match 43.2%; Score 1508.5; DB 15; Length 374;
Best Local Similarity 74.9%; Pred. No. 36-135;
Matches 280; Conservative 43; Mismatches 50; Indels 1; Gaps 1;
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DB 1 WYVFTSIGHPCPRYSNPADFYVDLTSIDRSKEREVAIVEKASLALFLEKVGQFDF 359
QY 360 WKAELKNTSTHTVSLTLTODTDC-GTAVELPGMEQSTLIRROISNDFRDLPTLLH 418
DB 61 WKAELKNTSTHTVSLTLTODTDC-GTAVELPGMEQSTLIRROISNDFRDLPTLLH 418
QY 419 GSEACIMSLIIGLYYGHGAKQSLFMDTALLFMIGALIPFNVLIDVYKCHSERSMY 478
DB 121 GSEACIMSLIIGLYYGHGAKQSLFMDTALLFMIGALIPFNVLIDVYKCHSERSMY 478
QY 479 YELEDGLYTAGPYFAKILGELPCHCAVYIYAMPITWLNLRPVELFLHLFLWLVLV 538
DB 181 YELEDGLYTAGPYFAKILGELPCHCAVYIYAMPITWLNLRPVELFLHLFLWLVLV 538
QY 539 FCCRTMALAASAMPTFHMSSEFCNALYNSFYLTAGFMINDMIVPAMISKLSFLRWC 598
DB 241 FCCRTMALAASAMPTFHMSSEFCNALYNSFYLTAGFMINDMIVPAMISKLSFLRWC 598
QY 659 FSGIMQIQFNHLYTTOIGNFTSILGDTMISANDLSHPLVLYLVIGISYGLFLY 658
DB 301 FSGIMQIQFNHLYTTOIGNFTSILGDTMISANDLSHPLVLYLVIGISYGLFLY 658
QY 659 LSUKTIKOKSIQDM 672
DB 361 LSUKTIKOKSIQDM 672

RESULT 5
US-10-424-599-175941
Sequence 175941, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: INCYTE CORPORATION; TANG, Y. Tom
APPLICANT: YUE, Henry; NGUYEN, Daniel B.;
APPLICANT: HAFALIA, April J.A.; ELIOTT, Vicki S.;
APPLICANT: LU, Yan; CHAWLA, Nalinder K.;
APPLICANT: YAO, Montague G.; BAUGHN, Mariah R.;
APPLICANT: SANDANAKAL, Madhusudan M.; RAMKUMAR, Jayalaxmi;
APPLICANT: ARVIZO, Chandra S.; GIBBEN, Kimberly C.;
APPLICANT: LAL, Preeti G.; AZIMZAI, Yalda;
APPLICANT: KHAN, Farrah A.; THANGAVELU, Kavitha;
APPLICANT: THORNTON, Michael B.; LU, Dyang Aina M.;
APPLICANT: TRIBOLEY, Catherine M.; WARREN, Bridget A.;
APPLICANT: ISON, H. Craig; DAS, Deepriya;
APPLICANT: RAMMAN, Brigitte E.; POLICK, Jennifer L.;
APPLICANT: KARNNEY, Lian
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B

CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 175941
LENGTH: 725
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(725)
OTHER INFORMATION: unsure at all xaa locations
FEATURE:
OTHER INFORMATION: clone ID: PAT_MRT3847_129893C.1.pap
US-10-424-599-175941

Query Match 21.6%; Score 753; DB 12; Length 725;
Best Local Similarity 30.4%; Pred. No. 1.6e-62;
Matches 182; Conservative 121; Mismatches 253; Indels 42; Gaps 10;

QY 60 SOVWFPEQLAQFKIPMR-----SHSQDSCELGIRNLSPKRVSGQMLAIIGSSGCGRAS 113
DB 61 AEATSGKVTPTVTOWNRINCSLSDKSSKARFLIKRVSGEAKPGRLLAIMGSGSGKTT 120
QY 114 LLDVITG-----RGHGKMKSGQIMINGQSTPQVLRKCAVHRQDQLPMLTYRETL 167
DB 121 LNLVLAQQLTASPLH-----LSGVLEFGKPGSKNAVK--PAYVRQEDLFFSQTLVRETL 174
QY 168 AFIAQMRLEPTFSQAOBKREVEDVIAELRLROCANTEVGNVYRGVSGGERREVSIGVOL 227
DB 175 STATELQPNSSAEERDEFNNLLPFLGLVSCADTVGAKVRGISGGEKELSVACEL 234
QY 228 LNMFGILLDEPTSGLDSTFMANIVTTLISRLAKGNRLVLSLRQPSRDLRLDVLVLM 287
DB 235 LASPSVIFADBPPTGLAFQAEKVMETLQQLADGHTVIGSIHQPRGSVSKPDITLLT 294
QY 288 SGTPTVYGAAG-OMVOYFTSIGHPCPRYSNPADFYVDLTSIDRSKEREVATVEKAQSLA 346
DB 295 EGSIVYAPADDEPLATYSKRGYQCPDHINPAEFLADLISDSSASVTSQKRPGLV 354
QY 347 ALPLEKVGSPDDPLMKAKELNTSTHTVSLTLTQDTCGAYVLPQM-IBQSTLIRQ 405
DB 355 ESFSGR-OSAVIYATPTITINDLSNRKKISQR-----AVYKKGVMMKQFLLKRA 405
QY 406 ISNPRDLPILLHSEACMSLIIFLYYGHAKOLFMDTALLFMIGALIPFNIL 465
DB 406 WMQSRDPLTKVAKRMSIASIIFGSVFMWMSQNSIQIDRMGLLVTAINTMALTX 465
QY 466 VWSKCHSRMLYYELEDGLYTAGYFPAKILGELPEHCAYVITYAMPIYLTNLKRVPE 525
DB 466 TVGVPERKRAIYDRBRAGSYSLGPLYBSKLAEPIGAPPLMFGAVLYMARLHPTMQ 525
QY 526 LFLHLFLVWLIVFRCRPMALASAMLPFMHSPFCNALNSFYLAGFPMINDNLMIV 585
DB 526 RPKFCGVIVTESFASAMGLTVGAMVPTTBAAVAGVSLMTVITVGGIYVVENENPII 585
QY 586 PAMISKLSFLKCFSGMLQIQNG-----HLYTTQIG-----NFTSILGDTMIS 630
DB 586 FRWINVSLIRWAFQGLSINERSGQFDHSHFDIQGEALERISFGSKRIRDTVIA 643

RESULT 6
US-09-837-992-1
Sequence 1, Application US/09837992
Patent No. US20020081687A1
GENERAL INFORMATION:
APPLICANT: Tian, Hui
APPLICANT: Schultz, Joshua
APPLICANT: Shan, Bei
APPLICANT: Tularik Inc.
TITLE OF INVENTION: Slicosteroemia Susceptibility Gene (SSG): Compositions
FILE REFERENCE: 018781-006020S
CURRENT APPLICATION NUMBER: US/09/837,992

CURRENT FILING DATE: 2001-04-18
PRIOR APPLICATION NUMBER: US 60/198,465
PRIOR FILING DATE: 2000-04-18
PRIOR APPLICATION NUMBER: US 60/204,234
PRIOR FILING DATE: 2000-05-15
NUMBER OF SEQ ID NOS: 45
SOFTWARE: Patent Ver. 2.1
SEQ ID NO 1
LENGTH: 652
TYPE: PRT
ORGANISM: Mus musculus
FEATURE:
OTHER INFORMATION: mouse slicosteroemia susceptibility gene (SSG)
OTHER INFORMATION: amino acid sequence
US-09-837-992-1

Query Match 20.1%; Score 701.5; DB 9; Length 652;
Best Local Similarity 29.1%; Pred. No. 1.1e-57;
Matches 194; Conservative 131; Mismatches 245; Indels 97; Gaps 19;

QY 24 QDSLFSSSDNS--LFTYTGQSVTLVRLTYQVDAAGV-PMFQDLAQFKIPWRS 79
DB 27 QGSVGTGARSRLGYLHVSYS-----VSNRVGFM-----WNKKS 60
QY 80 SODSCELG-RLNLSFKRVSGQMLAIIGSSGCGRASLLDVITGRHGKMKSGQIMINGQ 138
DB 61 COQKMDROLKDVSLYISGQIMCTLSSSGSKTTLDAISGRRLRTGLEGVFVNGCE 120
QY 139 STPOLRVKCAVHRQDQLPMLTYRETLAIAQKRLPRTSQAOBKREVEDVIAELRL 198
DB 121 LRDDFOCFQSVYLOSDFLSLTYRETLRYTAMALCRS-SADFYNKVAWMTESLS 179
QY 199 QCANTRVGNVYRGVSGGERRRVSIQVQLMNPGLILDEPTSGHDSFTANLVTTISRL 258
DB 180 HVAQDMSYNGFSGISSEGRRRVSIQAQDLQPKWMLDETTGDCMTAQVILLAE 239
QY 259 AKGNELVLSLHQPSPDIFRLDVLMTSGTPYVGAQOMVOYFTSIGHPCPRYSNPA 318
DB 240 ARDRIVYIYIHPSEELFOHEPDKIALLYGLVFCGTPPEMLGFPNCGVPCPEHSPF 299
QY 319 DRYVULSTIDRSKEREVATVEKAQSLAALFLBKVGSPDDPLMKAKELNTSTHTVSL 378
DB 300 DRYMDLTSVDTSRRRELSITKRVOMLECAFE-----SDIYHK-LNIRARVLTLP 353
QY 379 L-----TQDTCGAYVLPQMIEQFSTLIRQISNDRFLPILLHGSACMSLIIGF-- 432
DB 354 WVPFKTKD-----PQMFGLGVLLRVYTRNLRNKQAVIMLVONLIMGFLIYVL 405
QY 433 LYYGHAKLSLMDTALLFMIGALIIPNVILDVYSKCHSRSMYYELEDGLYAGYF 492
DB 406 LRVQNTNLGAQVDRVGLLYOLVGATPYGMANVANLPPMLAASVDSQSDGLYHKMQL 465
QY 493 FAKILGELPEHCAYVITYAMPIYLTNLKRVPELF-----LL-HFLVWLIVFCCTM 544
DB 466 LAYVLHVLFPVSIATVIPSVCYMTLGLYPERVARGYFSAALLAHLIGEFL-----TL 519
QY 545 ALAASMLPTFMHSPFCNALNSFYLAGFPMINDNLMIVYAMISKLSFLKCFSGMLQ 604
DB 520 VILGIQVQENI-VNSVALLSISGLLISGGLIRNIOEMPIPLKIIGYFTFOKCEILV 578
QY 605 ICPNGHLYTQIGNFTSILGDTMISAMDNSHPYAIYVIGSY----- 651
DB 579 NEFYGL-----NFTCGSSNTSML-----NHPMCA--IQGVQFIKTCPGATSRPT 622
QY 652 -GFLFLY 657
DB 623 ANFLILY 629

RESULT 7
US-09-989-981a-2
Sequence 2, Application US/09989981a
Publication No. US20030049730A1

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GENERAL INFORMATION:
APPLICANT: Hobbs, Helen H.
APPLICANT: Shan, Bei
APPLICANT: Barnes, Robert
APPLICANT: Tian, Hui
APPLICANT: Tularik Inc.
APPLICANT: Board of Regents, The University of Texas System
TITLE OF INVENTION: ABCG5 and ABCG8: Compositions and Methods of Use
FILE REFERENCE: 018781-007320US
CURRENT APPLICATION NUMBER: US/09/989,981A
CURRENT FILING DATE: 2002-07-23
PRIOR APPLICATION NUMBER: US 60/252,235
PRIOR FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: US 60/253,645
PRIOR FILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 13
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 652
TYPE: PRT
ORGANISM: Mus musculus
FEATURE:
OTHER INFORMATION: mouse ABCG5 (mABCG5)
US-09-989-981a-2

Query Match      20.1%; Score 701.5; DB 10; Length 652;
Best Local Similarity 29.1%; Pred. No. 1.1e-57;
Matches 194; Conservative 131; Mismatches 245; Indels 97; Gaps 19;

QY 24 QDSLESSESDNS--LYFTYSGQSNLTLEVRDLTYQVDIASQV-PWFEOAQFKLPMSHS 79
DB 27 QGSVGTGRHSLGVLHYS-----YSNNGPR-----NAIKS 60
QY 80 SQDSCELG-I-RNLSFKVSGQMLAIISSGCGRSLDLVTITGRGHGKMSGQIWINQOP 138
DB 61 COQKMDROILKQVSIYIESGQIMCIISSGSGKTLIDALISGRIRRTGLEGEFVANGCE 120
QY 139 STFOVARKCVAHVRODQLPRLTVRETLAFIAQMRPTFSQQRDQKREVDVIAELRLR 198
DB 121 LRRDQDQDFSVYLSQDVSLSLYRRLRYMMLALRS--SADPYNKBAVATLSTLS 179
QY 199 QCANTREVTYTRGVSGGRRRVISGVOLMNPGLILDEPTSGIDSTFANLVTTSRL 258
DB 180 HVADWQIGSYNGFSGSGRRRVISIAQLODPKVMMLDEPTTGIDCMTAQIVILLAEI 239
QY 259 AKGNRLVILSLHQRSDIFRLFDVLMTSGTPYILGAQOQVOYFISIGHPCRYGNSPA 318
DB 240 ARDRIVITIHQPSSELFQHDKAILTYGLVFCGTPREMLGFPNNCGYPCPEHNSPF 299
QY 319 DRYVDLTSIDRRSKEREVAITYEKAQSLAALFLEKYQGFDDFLWKAEXELNTHVSLT 378
DB 300 DRYMDLTSYDTSRREBIETRYRQVMEBCAFKE-----SDIYHKI--LENIRAEVYTLTP 353
QY 379 L-----TOPTDQGTAVELPGMIEQFTLIRROISNDFRLPTLLIHGSEACMSIIGF-- 432
DB 354 NMPFKTKD-----PGMFGKLVLRRTYRLNMRKQAVIRKLVONLNGILFLLFYL 405
QY 433 LYIGHGAKQLSPMDTALLFMIGALIPFNVIIDVYSKCHSERSMLYLEBGLTYAGPYF 492
DB 406 LRQVNTLILGAVQDRVGLLYQVGFYTGMLNANLPPMLRAVSDQSGLVHKNQML 465
QY 493 FAKILGELPEHCAVYIYAMPYIMLTNLRPVPEL-----L--HFLVWLNVFCGRM 544
DB 466 LAYVLAHVLPFSVLAITYISSVCYMTLGLYBEVARGYSALLANHLIGEPF-----TL 519
QY 545 ALAASAMLPTRHSGSFCAALNSFTLTAQFMINDNITVPAMTSKLSIFRWCFSGIMQ 604
DB 520 VLLGVQVQNPRI--VNSIVALLSISGLIGSGFRNTQEMPIPKLIGYTFQKCCETILV 578
QY 605 IQENHGLYTTQIQNFTFSILGDTMISAMDLNHSHPYATLYLVIGISY----- 651
DB 579 NERYGL-----NFTCGSGSNSTML-----NHPMCA-----ITQGVFLEKTKCPGATSRFT 622

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QY 652 -GELFLY 657
DB 623 ANFLYLY 629

RESULT 8
US-09-837-992-3
Sequence 3: Application US/09837992
Patent No. US20020081687A1
GENERAL INFORMATION:
APPLICANT: Tian, Hui
APPLICANT: Schultz, Joshua
APPLICANT: Shan, Bei
APPLICANT: Tularik Inc.
TITLE OF INVENTION: Sitosterolemia Susceptibility Gene (SSG): Compositions and Methods of Use
FILE REFERENCE: 018781-006020US
CURRENT APPLICATION NUMBER: US/09/837,992
CURRENT FILING DATE: 2001-04-18
PRIOR APPLICATION NUMBER: US 60/199,465
PRIOR FILING DATE: 2000-04-18
PRIOR APPLICATION NUMBER: US 60/204,234
PRIOR FILING DATE: 2000-05-15
NUMBER OF SEQ ID NOS: 45
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 651
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: human sitosterolemia susceptibility gene (SSG)
US-09-837-992-3

Query Match      19.9%; Score 697; DB 9; Length 651;
Best Local Similarity 29.1%; Pred. No. 3.1e-57;
Matches 195; Conservative 129; Mismatches 263; Indels 84; Gaps 18;

QY 17 LGDASGLDSY---FSSSESDNSLYFTYSGQSNLTLEVRDLTYQVDIASQVWPFOQLAQFK 72
DB 15 LGVNGSGQSLGAPATAPPEPHSLGILHASYSVHRP-----PMD-ITSCR 61
QY 73 IWRSHSGQDSCELGIRNLSFKVSGQMLAIISSGCGRSLDLVTITGR-GHGRKMSGQ 121
DB 62 QQMTROI-----LKQVSLYVESGQIMCIISSGSGKTLIDAMGGRGRAGTF-LGE 112
QY 132 IWINQPSRPOLVRKCVAHVRODQLPRLTVRETLAFIAQMRPTFSQQRDQKREVDV 191
DB 113 VIVNGRALRREQFCQCFYVLSQDVSLSLYRRLTYLTYLALAI--KGNQSGFKKYEAV 171
QY 192 IAEIRLOCANTRVNITVARGVSGGRRRVISGVOLMNPGLILDEPTSGIDSTFANL 251
DB 172 MAELSLSHVADLILNYSILGISTGERRRVISIAQLODPKVMMLDEPTTGIDCMTAQI 231
QY 252 VTTLSRLAKGNRLVILSHQRSDIFRLFDVLMTSGTPYILGAQOQVOYFISIGHPC 311
DB 232 VTLVLELARPRKIVITIHQPSSELFQDKAILSLGELIFCGTPAMMLDFPDQCYPC 291
QY 312 PRYSNPADPFYVDLTSIDRRSKEREVAITYEKAQSLAALFLEKYQGFDDFLWKAEXELN 371
DB 292 PEHNSPDPFYMDLTSYDTSRREBIETRYRQVMEBSAYKKA-----ICHTLKNIERM 345
QY 372 THVSITL-----TOPTDQGTAVELPGMIEQFTLIRROISNDFRLPTLLIHGSEACIMS 427
DB 346 KILKTLIPWPFKTKOS-----PGVSKGLVLRRTYRLNMRKQAVIRKLVONLNGIL 397
QY 428 LIIIGFLYIGHGAKQI--SPMDTALLFMIGALIPFNVIIDVYSKCHSERSMLYLEBGL 485
DB 398 LFLLEFVLRVRSNVILGAIQDRVGLLYQVGFATPYTGMLNANLPPMLRAVSDQSG 457
QY 486 YTAGPYFAKILGELPEHCAVYIYAMPYIMLTNLRPVPEL-----L--HFLVWLNV 537
DB 458 YQKQGMALAYLHVLPFSVLAITYISSVCYMTLGLHPEVARGYSALLANHLIGEPF-- 516

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QY 538 VFCCRMALAAASAMLPTEHMSFPCNALVNSPYLTATGEMINDLMIVPAMISKLSPFLW 597
 Db 517 -----TLVLGIQVONNI-VNSVVALLSIAGVVGSGFLNIQEMIPFKIISYFTFOKY 570
 QY 598 CFSGLMOIQFNGLYTTQIGNFTFSILGDTM-----ISANDLSHPLY 640
 Db 571 CSEILVNEFYGLNFT--CGSSNVSVTTPMCAFTQGIQIEKTCPGATSRFTMFLILY 628
 QY 641 AIV--LIVIGI 649
 Db 629 SFIPALVILGI 639

RESULT 9

US-09-989-981A-6
 / Sequence 6, Application US/09989981A
 / Publication No. US20030049730A1
 / GENERAL INFORMATION:
 / APPLICANT: Hobbs, Helen H.
 / APPLICANT: Shan, Bei
 / APPLICANT: Barnes, Robert
 / APPLICANT: Tian, Hui
 / APPLICANT: Tularix Inc.
 / APPLICANT: Board of Regents, The University of Texas System
 / TITLE OF INVENTION: ABCG5 and ABCG8: Compositions and Methods of Use
 / FILE REFERENCE: 018781-007320US
 / CURRENT APPLICATION NUMBER: US/09/989,981A
 / PRIOR FILING DATE: 2002-07-23
 / PRIOR APPLICATION NUMBER: US 60/252,235
 / PRIOR FILING DATE: 2000-11-20
 / PRIOR APPLICATION NUMBER: US 60/253,645
 / PRIOR FILING DATE: 2000-11-28
 / NUMBER OF SEQ ID NOS: 13
 / SOFTWARE: PatentIn Ver. 2.1
 / SEQ ID NO 6
 / LENGTH: 651
 / TYPE: PRF
 / ORGANISM: Homo sapiens
 / FEATURE:
 / OTHER INFORMATION: human ABCG5 (hABCG5)
 / US-09-989-981A-6

Query Match 19.9%; Score 697; DB 10; Length 651;
 Best Local Similarity 29.1%; Pred. No. 3.1e-57;
 Matches 195; Conservative 129; Mismatches 263; Indels 84; Gaps 18;

QY 17 LODASGLQDSU-----FSSSDNSLYFTYSGQSNTELEVRDLTYQVDIASQVPMFEQLAQFK 72
 Db 15 LQVNRSGSSLEGAPATAPBEPHSLGILHASYSVSHRYV-----PWND-ITSCR 61
 QY 73 IPWRSHSODSCGELGIRNLSEFKVRSQOMLAITGSSGGRASLLDVITGR-CHGGRKMSGQ 131
 Db 62 QQWTRQI-----LKVSLYVESGQIMCITLSSGSGKTTLLDMSGRLLGATGF-LGE 112
 QY 132 IWINQGPSTPOLVRKCAVAVRQHDLPNLTVRETLAFIAQMLPRTFSQAORDKREVDV 191
 Db 113 VYVNGRALRRBOFCDFSYVLQSDTLTSLTVRETLHYTALLAI-RGNPFSFGQKVEAV 171
 QY 192 IAEFLRQCANRVGNTYVRSVGSGERRRVSIQVOLLNPGILLIDEPSTGLDSTFANL 251
 Db 172 MAELSLSHVADRLINYSGLGISTGERRRVSIAAQLDOPKVMLEDEFTTGLDCMTANCI 231
 QY 192 IAEFLRQCANRVGNTYVRSVGSGERRRVSIQVOLLNPGILLIDEPSTGLDSTFANL 251
 Db 222 VVLLVELARNRRLVLTIHQPRSELFDLXIAILSFGELIFCGTPAEMLEDFNDCGYPC 291
 QY 312 PRYSNPADPYVDLTSIDRSKEREVAIVKAGSLAALFLEKVGQSDDFLMAKAEKELNTS 371
 Db 292 PHSNPFDFYMDLTSVDQSKEREIETSKRVOMISAYKXSA-----ICHKTLKNIERM 345
 QY 372 THTVSLTL-----TQDDCGTAVELPMIMIOFSTLIIRQISNDFRDLPTLIHSGEACIMS 427

Db 346 KHLKTLPMVPEFKTKDS-----PGVFSKLVLLRRVTRNLVRNKLAVITRLQLNLING 397
 QY 428 LIIGFLYGGHGAQOL--SFMDTALLFMIGALLPFWVILDVVSKCHSERMLYEELEGI 485
 Db 398 LFLFLFVLARRSVNLKCALQDRGGLLYQFVGATPYTGMLNAVNLFPVLRASVDSQSDGI 457
 QY 486 YTAGPYFPAKILGELPCHCAVYIYAMPITYWLTNLAPVPELF-----LL--FEFLVWL 537
 Db 458 YQKQOMMLAVALHPLPSVAATMIFSSVCYWTGLHPREVARFGYPSAALAPHLIGEFF- 516
 QY 538 VFCCRMALAAASAMLPTEHMSFPCNALVNSPYLTATGEMINDLMIVPAMISKLSPFLW 597
 Db 517 -----TLVLGIQVONNI-VNSVVALLSIAGVVGSGFLNIQEMIPFKIISYFTFOKY 570
 QY 598 CFSGLMOIQFNGLYTTQIGNFTFSILGDTM-----ISANDLSHPLY 640
 Db 571 CSEILVNEFYGLNFT--CGSSNVSVTTPMCAFTQGIQIEKTCPGATSRFTMFLILY 628
 QY 641 AIV--LIVIGI 649
 Db 629 SFIPALVILGI 639

RESULT 10

US-10-090-455-6
 / Sequence 6, Application US/10090455
 / Publication No. US20030027259A1
 / GENERAL INFORMATION:
 / APPLICANT: Chen, Hongyun
 / APPLICANT: Le Bihan, Stephane
 / TITLE OF INVENTION: NOVEL ABCG4 TRANSPORTER AND USES THEREOF
 / FILE REFERENCE: 100103.406
 / CURRENT APPLICATION NUMBER: US/10/090,455
 / CURRENT FILING DATE: 2002-03-01
 / NUMBER OF SEQ ID NOS: 17
 / SOFTWARE: FastSeq for Windows Version 4.0
 / SEQ ID NO 6
 / LENGTH: 651
 / TYPE: PRF
 / ORGANISM: Homo sapiens
 / US-10-090-455-6

Query Match 19.9%; Score 697; DB 14; Length 651;
 Best Local Similarity 29.1%; Pred. No. 3.1e-57;
 Matches 195; Conservative 129; Mismatches 263; Indels 84; Gaps 18;

QY 17 LODASGLQDSU-----FSSSDNSLYFTYSGQSNTELEVRDLTYQVDIASQVPMFEQLAQFK 72
 Db 15 LQVNRSGSSLEGAPATAPBEPHSLGILHASYSVSHRYV-----PWND-ITSCR 61
 QY 73 IPWRSHSODSCGELGIRNLSEFKVRSQOMLAITGSSGGRASLLDVITGR-CHGGRKMSGQ 131
 Db 62 QQWTRQI-----LKVSLYVESGQIMCITLSSGSGKTTLLDMSGRLLGATGF-LGE 112
 QY 132 IWINQGPSTPOLVRKCAVAVRQHDLPNLTVRETLAFIAQMLPRTFSQAORDKREVDV 191
 Db 113 VYVNGRALRRBOFCDFSYVLQSDTLTSLTVRETLHYTALLAI-RGNPFSFGQKVEAV 171
 QY 192 IAEFLRQCANRVGNTYVRSVGSGERRRVSIQVOLLNPGILLIDEPSTGLDSTFANL 251
 Db 172 MAELSLSHVADRLINYSGLGISTGERRRVSIAAQLDOPKVMLEDEFTTGLDCMTANCI 231
 QY 192 IAEFLRQCANRVGNTYVRSVGSGERRRVSIQVOLLNPGILLIDEPSTGLDSTFANL 251
 Db 222 VVLLVELARNRRLVLTIHQPRSELFDLXIAILSFGELIFCGTPAEMLEDFNDCGYPC 291
 QY 312 PRYSNPADPYVDLTSIDRSKEREVAIVKAGSLAALFLEKVGQSDDFLMAKAEKELNTS 371
 Db 292 PHSNPFDFYMDLTSVDQSKEREIETSKRVOMISAYKXSA-----ICHKTLKNIERM 345
 QY 372 THTVSLTL-----TQDDCGTAVELPMIMIOFSTLIIRQISNDFRDLPTLIHSGEACIMS 427
 Db 346 KHLKTLPMVPEFKTKDS-----PGVFSKLVLLRRVTRNLVRNKLAVITRLQLNLING 397

QY 428 LIIGFLYYGHGAKQL--SPMDTALLFMIGALIPRVIIDVYSKCHSERSMLYELEDGL 485
 Db 398 LFLLEFLVLRVNSVLKALIDRVGLLYQFVGATPYGMANVLPVLRAVSDQSGQL 457
 QY 486 YTAGPYEFPAKIGELBECACVYIIYAMPYIMTNLRPELFL-----DL--HPLLVMLV 537
 Db 458 YOKKQMMALVLAHLVLPFSVVAITWIFSSVCYMTLGLHPEVARFGYSAALLAHLIGEFLL 516
 QY 538 VPCCRMTALAASAMLPFHMSFPCNALVNSFLITGFMINDNIMYVAMISKISFLRM 597
 Db 517 -----TLVLGIQVONPRT--VNSVALLSLAGVIVSGFLRNIQEMPIPKIISYTFEOKY 570
 QY 598 CFSGLMOIQPNGLHYTTOIGNFTFSLIGDTM-----ISANDLSHPLY 640
 Db 571 CSEILVNERFYGNFT--CGSSNVSVTTPNMCAPFTGQIPIKTCPGATSRTPTMFLILY 628
 QY 641 AIV--LIVIGI 649
 Db 629 SPTPALVIGI 639

RESULT 11
 US-09-866-866A-14
 ; Sequence 14; Application US/09866866A
 ; Patent No. US20020102244A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Sorrentino, Brian
 ; APPLICANT: Schuetz, John
 ; TITLE OF INVENTION: A Method of Identifying and/or Isolating Stem Cells
 ; FILE REFERENCE: 1340-1-021CIP2
 ; CURRENT APPLICATION NUMBER: US/09/866,866A
 ; CURRENT FILING DATE: 2001-08-30
 ; PRIOR APPLICATION NUMBER: 09/584,586
 ; PRIOR FILING DATE: 2000-05-31
 ; PRIOR APPLICATION NUMBER: PCT/US99/11825
 ; PRIOR FILING DATE: 1999-05-27
 ; PRIOR APPLICATION NUMBER: 60/086,988
 ; PRIOR FILING DATE: 1998-05-28
 ; NUMBER OF SEQ ID NOS: 27
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO 14
 ; LENGTH: 657
 ; TYPE: PRT
 ; ORGANISM: Mus musculus
 ; US-09-866-866A-14
 Query Match 19.2%; Score 672.5; DB 9; Length 657;
 Best Local Similarity 27.2%; Pred. No. 6,9e-55;
 Matches 176; Conservative 136; Mismatches 241; Indels 93; Gaps 16;
 QY 91 LSF-----KVNSGQML-----AIISSGCGRASILDVITGRG 122
 Db 37 LSFHITTYRVKVSGLVRYKEKELISDINGIMKRGALNATIGPTGGKSSILDLAAR- 95
 QY 123 HGSKMSGQIWINQSGSTPOLVRKCVAYRQHDOLLPLNYRETLAFIAQMLPRTFQA 182
 Db 96 KDKKSGISGVLLINGARQ--RAHFKCCSGYVDDVVMGTLTYENMQLFSAALRLPTMKNH 154
 QY 183 QQRKREVDYIAELRLQACANTRYGNTYVGVSGGERRRVSIGVOLLNPGILLDEPTSG 242
 Db 155 EKKEKINTIKELIGLKVADSKVQTOFIRGISGGERKRTSIGMELITDPSILFLDEPTTG 214
 QY 243 LDFSTAHNVITLISRLAKGNRLVLSLHQPRSDIFRLFDLVLLMTSGTPIYLAGAQQVQ 302
 Db 215 LBSSTANAVALLLKMSKQGRITISIHQPRISFKLDPSSLASGLVHNGRAQKLE 274
 QY 303 YFISIHGPERYSNPADFYVDLT-----IDRSKEREVAUTVKAOSLAPLEKQKQ 355
 Db 275 YFSAAGYHCEFYNNPDPFLVDIINGSSAVMLNREONKANKTEPBGKGPVTEINISE 334
 QY 356 F--DDELWAAEAKELNTSTHTVSLTLTODTDCGTAVELPGMIEQPSLIRQISNDFDL 413

Db 335 FYINSAIYGETKAEID-----QLPGAQEKQKTSFKPEPVYVTSRCHQLRKIAERSFKNL 388
 QY 414 -----FTLIHSGEACMLIIGFLYYGHGAKQLSFMOTALLFMIGALIPRVIID 465
 Db 389 LSNPOASVALIV---TVILGLIIGAIYFDLKYPDAGQNRAGVLPFL----- 433
 QY 466 VVSKCHS-----ERSMLYELEDGLYTAGPYFAKILGE--LPEACVVIYAMP 514
 Db 434 TTNQCCSSVAVELFVVEKCLFIHEYISGYRVSSYFFGKXMSDLLPRPLPSVIFPCIL 493
 QY 515 YKLTNLRVPELFLHFLVWLVPCCRTMALAASAMLPFHMSFPCNALVNSFLYTAG 574
 Db 494 YFMGLKKTVDAFFIIMFPLINVAAYTASSMALAIRTGQSVSVATLMTTIAFVMMFSG 553
 QY 575 FMINDNL--WIYPAVISLFLKFCFSLMOIQPNGLHY-----TTOIGNFTFSI 623
 Db 554 LVLNLTIGPWL--SNQYFSLPRYGFALQYNELGGEFCGPRVYTNSTCVASYALCT 611
 QY 624 LGDTMTS--AMDLSHPLVAVIYIVIGISYGFLLYLSLKIKKKS 668
 Db 612 GNEYILNQGIELSPWGLMKRNVALACMTIIFLTIVAKLLEPKKYS 657

RESULT 12
 US-09-981-353-35
 ; Sequence 35; Application US/09981353
 ; Patent No. US20020160382A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Laasek, Amy W.
 ; APPLICANT: Jones, David A.
 ; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
 ; FILE REFERENCE: PA-0038 US
 ; CURRENT APPLICATION NUMBER: US/09/981,353
 ; CURRENT FILING DATE: 2001-10-11
 ; NUMBER OF SEQ ID NOS: 194
 ; SOFTWARE: PERL Program
 ; SEQ ID NO 35
 ; LENGTH: 655
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; OTHER INFORMATION: Incyte ID No. US20020160382A1 5517972CD1
 ; US-09-981-353-35

Query Match 18.9%; Score 659.5; DB 9; Length 655;
 Best Local Similarity 27.2%; Pred. No. 1.2e-53;
 Matches 185; Conservative 141; Mismatches 270; Indels 85; Gaps 21;
 QY 28 PSESBNSL-YTYSGQSNLEVRDLTYQVDIASQVPEFQLAQPKPMRSHSQDSQCEL 86
 Db 20 PPTASNDIKAFI--EGAVLSFHNICRYVRLKSGF-----LPCRVPVEKEI--- 63
 QY 87 GIRNLSFKVRSQGMALIISSGCGRASILDVITGRGHGKAKSGQIWINQSTPOLVRK 146
 Db 64 -LSNINIGIKKP--LVALIGPTGGKSSILDLAARKPSSGL--SGDVLINGAPRANF--K 118
 QY 147 C-VAAHRCQDOLLPLNYRETLAFIAQMLPRTFSQARQKREVDYIAELRLQACANTRY 205
 Db 119 CMSGYVDDVVMGTLTYENMQLFSAALRLATTYTNHKKRIRVYQELGLDQVADSKV 178
 QY 206 GNTYVAVSGGERRRVSIGVOLLNPGILLDEPTSGIDSTFANLVITLISRLAKGNRLV 265
 Db 179 GTQFIRGVSGGKRTSIGMELITDPSILFLDEPTTGIDSTANAVALLLKMSKQGRIT 238
 QY 266 LISHQPRSDIFRLFDLVLLMTSGTPIYLAGAQQVQYFISIHGPERYSNPADFYVDLT 325
 Db 239 IFSIHQPRISFKLDPSSLASGLVHNGRAQKLEGFESAGYHCEYNNPDPFLDIT 298
 QY 326 SIDRS-----KEREVAIVEK--AQSLAALFLKRYQGFDDFL--WKAEAELN 369
 Db 299 NQDSTAVALNREDFKATEIIEPSKQKPLIEKLAIEIVN-----SSPYETKAEIHLQLS 353

QY 370 TSTHTVSLTLPDTCGTAVELPGMIEQSTLIROISNDFRDLPTLLIHSEACIMSLI 429
DB 354 GGEKKKTIYFKKISYTTSS-----FCHQLRWKSRKSKNLPQASIAQIIVTVLGLV 408
QY 430 IGFLLYGHGAKQSLFMDTALLFMIGALLIPENVILDVSKCHS-----ERSMLY 479
DB 409 IGAIVFGKNDSTGIONRAGVLFPL-----TTNOCSSSVSAVELFVEKELFIH 457
QY 480 ELEDGLYTAGPYFPKATIGS-LPEHCAYVVIYAMPVILNLRPVELFLHFLVWLTV 538
DB 458 EYISGYRVSSYFLGKLSLDPRLPMPSIIFTCIYFMLGKPKADAFVWMTLMWVA 517
QY 539 FCCRTMALASAMLPPTHMSSFFCNALYNSFYLTAGFMINDNL--WIVPAMISKLSFLR 596
DB 518 YSASSMALAIAGQSVSVATLMTICFVPMIFSGLVNLTIASWL--SWLQYFSIPR 575
QY 597 WCFSGLMQIOPNGHLTYTOIG-----NFTFSILGDTMI--SAMDLSHPLVAYIYI 647
DB 576 YGFTALQHNELQONPCPGMATGNPCNYA-TCTGSEYLVKQSIDLSPWGLMKHVALA 634
QY 648 GISYGFLLYLLSLKLIKQKS 668
DB 635 CMIVIFLTIAVILKLLFLKKYS 655

RESULT 13
US-10-120-687-61
; Sequence 61, Application US/10120687
; Publication No. US20030082155A1
; GENERAL INFORMATION:
; APPLICANT: Massachusetts General Hospital
; TITLE OR INVENTION: Stem Cells of the Islets of Langerhans and Their Use in Treating
; FILE REFERENCE: 3284/1235B
; CURRENT APPLICATION NUMBER: US/10/120,687
; CURRENT FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: US60/169082
; PRIOR FILING DATE: 1999-12-06
; PRIOR APPLICATION NUMBER: US 09/966,875
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US 60/215109
; PRIOR FILING DATE: 2000-06-28
; PRIOR APPLICATION NUMBER: US 60/238880
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: US 09/731261
; PRIOR FILING DATE: 2000-12-06
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 61
; LENGTH: 655
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-120-687-61

Query Match 18.9%; Score 659.5; DB 14; Length 655;
Best Local Similarity 27.2%; Pred. No. 1.2e-53;
Matches 185; Conservative 141; Mismatches 270; Indels 85; Gaps 21;

QY 28 FSSSDNSL-YFTYSGQNTLEVRDLTYOVDIASQVWFEQIAQFKIPWSSHSQDSCEL 86
DB 20 FPAATASNDLKAF---EGAVLSFNHICRYVKLSGF-----LPCKRPVEKEI--- 63
QY 87 GIRLSFKVRSQOMLAIIGSSGGRASLLDYITGRGHGKMKSGQIWINQOPSTPOLVRK 146
DB 64 -LSNINGIMKPG-LNAILGPTGGKSSLLDVLAARKDPSGL--SGDVILINGAPRANF--K 118
QY 147 C-VAHVRODQLLPMLVTRETIAFAIAQVRLPRTFSQARDKRVEDVIAELRLSCANTRY 205
DB 119 CNSGIVVDDVVMGTLITRENLOFSALRLATMTWNEKERNIRVIOELGLDVADSKV 178
QY 206 GNTYVRGVSGGRRRVSIGVOLLNPNGLIIDEPTSGIDSTTANVYTTSLRLAKNRLV 265
DB 179 GTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGIDSETANAVALLKRSKQGRTI 238

QY 266 LISLHQRSDIFRLFDVLNMTSGTP-VLGAQOQVQYFTSIGHPCPRYSNPADFYDLT 325
DB 239 IFSIHQPRYSIFKLFDLTLILASGRMLFHGPADALGFPSAGYCHCAVYNNPADFFIDI 298
QY 326 SIDRS-----KREVAIYVK-----AQSLAALFLEKVGDFDEL--WVAENELN 369
DB 299 NGDSTAVANLNREEDFKATEIIEPSKQDKPLIEKLAELVYV----SSFYETVLAELHQLS 333
QY 370 TSTHTVSLTLPDTCGTAVELPGMIEQSTLIROISNDFRDLPTLLIHSEACIMSLI 429
DB 354 GGEKKKTIYFKKISYTTSS-----FCHQLRWKSRKSKNLPQASIAQIIVTVLGLV 408
QY 430 IGFLLYGHGAKQSLFMDTALLFMIGALLIPENVILDVSKCHS-----ERSMLY 479
DB 409 IGAIVFGKNDSTGIONRAGVLFPL-----TTNOCSSSVSAVELFVEKELFIH 457
QY 480 ELEDGLYTAGPYFPKATIGS-LPEHCAYVVIYAMPVILNLRPVELFLHFLVWLTV 538
DB 458 EYISGYRVSSYFLGKLSLDPRLPMPSIIFTCIYFMLGKPKADAFVWMTLMWVA 517
QY 539 FCCRTMALASAMLPPTHMSSFFCNALYNSFYLTAGFMINDNL--WIVPAMISKLSFLR 596
DB 518 YSASSMALAIAGQSVSVATLMTICFVPMIFSGLVNLTIASWL--SWLQYFSIPR 575
QY 597 WCFSGLMQIOPNGHLTYTOIG-----NFTFSILGDTMI--SAMDLSHPLVAYIYI 647
DB 576 YGFTALQHNELQONPCPGMATGNPCNYA-TCTGSEYLVKQSIDLSPWGLMKHVALA 634
QY 648 GISYGFLLYLLSLKLIKQKS 668
DB 635 CMIVIFLTIAVILKLLFLKKYS 655

RESULT 14
US-10-405-806-2
; Sequence 2, Application US/10405806
; Publication No. US2003023262A1
; GENERAL INFORMATION:
; APPLICANT: NAKAGAWA, RINKO
; APPLICANT: KOTANI, HIDEHITO
; APPLICANT: HARA, YOSHIKAZU
; APPLICANT: KOMATANI, HIDEYA
; TITLE OR INVENTION: DRUG RESISTANT GENE AND USE THEREOF
; FILE REFERENCE: 234985USOCONT
; CURRENT APPLICATION NUMBER: US/10/405,806
; CURRENT FILING DATE: 2003-04-03
; PRIOR APPLICATION NUMBER: PCT/JP01/08112
; PRIOR FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: JP2000-303441
; PRIOR FILING DATE: 2000-10-03
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 2
; LENGTH: 655
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-405-806-2

Query Match 18.9%; Score 659.5; DB 15; Length 655;
Best Local Similarity 27.2%; Pred. No. 1.2e-53;
Matches 185; Conservative 141; Mismatches 270; Indels 85; Gaps 21;

QY 28 FSSSDNSL-YFTYSGQNTLEVRDLTYOVDIASQVWFEQIAQFKIPWSSHSQDSCEL 86
DB 20 FPAATASNDLKAF---EGAVLSFNHICRYVKLSGF-----LPCKRPVEKEI--- 63
QY 87 GIRLSFKVRSQOMLAIIGSSGGRASLLDYITGRGHGKMKSGQIWINQOPSTPOLVRK 146
DB 64 -LSNINGIMKPG-LNAILGPTGGKSSLLDVLAARKDPSGL--SGDVILINGAPRANF--K 118
QY 147 C-VAHVRODQLLPMLVTRETIAFAIAQVRLPRTFSQARDKRVEDVIAELRLSCANTRY 205

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us-09-989-981a-4.rpb

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Db 119 CNGYVVDVVMGTLTVRENLFPSAALRLATTMTNHEKNERINKEVIGELGLDKVADSKV 178
Qy 206 GNTYVGVSGGERRRVSIGVOLLNPGIILDEPTSGDLSFTAHNLVTLRLAKNRLV 265
Db 179 GTQFIRGVSGERRKTSIGMELITDPSILFLDEPTTGLDSTANAVLLIKRMSKQRTI 238
Qy 266 LISLHQRSDIFRLFDVLVLLMTSGTPIYGAAGQOVFTSIGHPCPRYSNPADFVDLT 325
Db 239 IFSIHQPRYSIFKLPDSTLLASGRIMFHPGPAQALGYFESAGYCEAYNNPADFFLDII 298
Qy 326 SIDRS-----KEREVATVEK-----AQSIALFLKRYOGFDDFL--WKAKEKELN 369
Db 299 NGDSTAVALLNREDFKATEIIEPSKODKPLIEKLAIEYVN-----SSFYKETAELHQLS 353
Qy 370 TSTHTVSLTLTODTDCGTAVELPGMIEPSTLIRQISNDFRDLPTLLIHGSEACMSLI 429
Db 354 GGEKKKKITVFKESYTTSS-----FCHQLRWVSKRSFKNLGNPQASIAQIIVTVVLGLV 408
Qy 430 IGFLYVGHGAKOLSFMDDTALLFMIGALLPENVILDVYSKCHS-----ERSMLYX 479
Db 409 IGALYFGLKNDSTGIGNRAGVLFPL-----TTNQCFSVSASVELFVVEKKLFIH 457
Qy 480 ELEDGLYTAGPYFPFAKILGE-LPEHCAYVIYIAMPYIWLTLNRPVPELFLHLHLVWLTV 538
Db 458 EYISGYRVSSYFLGKLSLDLPMRLPSIIFLCIYFVWLGLKPKADAFVVMFTLMVVA 517
Qy 539 FPCRMTALASAMLPFFHMSFFCNALYNSFYLTAGFMINDNL--WIVPAMISKLSFLR 596
Db 518 YSASVWALAIAGOSVSVATLMTICFVPMIFSGILVNLTTIASWL--SWLQYFSIPR 575
Qy 597 WCFSGLMQIQFNGLVTTQIG-----NFTSILGDTMI--SAMDLSHPYAIYIYI 647
Db 576 YGFTALQHNFEFLQNCPCGLNATGNNPCNYA--TCTGGEYLVKQIGDLSFWMGLMKHVALA 634
Qy 648 GISYGFLEFLYLSLKLKOKS 668
Db 635 CMVIFLITAYLKLFLKXYS 655

RESULT 15
US-09-961-086-1
; Sequence 1, Application US/09961086
; Publication No. US20030036645A1
; GENERAL INFORMATION:
; APPLICANT: UNIVERSITY OF MARYLAND, BALTIMORE
; APPLICANT: ROSS, Douglas D.
; APPLICANT: DOYLE, L. Austin
; APPLICANT: ABRUTZO, Lynne
; TITLE OF INVENTION: BREAST CANCER RESISTANCE PROTEIN (BCRP) AND THE DNA
; FILE REFERENCE: EP19376-019
; CURRENT APPLICATION NUMBER: US/09/961,086
; PRIOR FILING DATE: 2001-09-21
; PRIOR APPLICATION NUMBER: US 60/073,763
; PRIOR FILING DATE: 1998-02-05
; PRIOR APPLICATION NUMBER: PCT/US99/02577
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 655
; TYPE: PRF
; ORGANISM: Homo sapiens
US-09-961-086-1

Query Match 18.8%; Score 657.5; DB 10; Length 655;
Best Local Similarity 27.2%; Pred. No. 1.9e-53;
Matches 185; Conservative 141; Mismatches 270; Indels 85; Gaps 21;

Qy 28 FSESDNSL-YFTYSGSNTLEVRDLTYQVDIASQVPMFQALQAFKIPMRSHSQQSCDL 86
Db 20 FPAIASNDLAKFT--EGAVLSFHNICRYVKLSGF-----LPCRKPYEKET--- 63

Qy 87 GINLSFKVRSQGLMALLIGSSGGRASLIDVTGRRGGKMKSGQIWINQSTPOLVEX 146
Db 64 -LSNINQIMKPG-LNAILGPTGGKSSLLDVLARCDPSGL--SGDVLINGAPFANF--K 118
Qy 147 C-VAHYRQHQLLBNLTVEETLAFIAOMPLRPFESQAQSDKREVDYAEIRLRQCANTRY 205
Db 119 CNGYVVDVVMGTLTVRENLFPSAALRLATTMTNHEKNERINRYIGELGLDKVADSKV 178
Qy 206 GNTYVGVSGGERRRVSIGVOLLNPGIILDEPTSGDLSFTAHNLVTLRLAKNRLV 265
Db 179 GTQFIRGVSGERRKTSIGMELITDPSILFLDEPTTGLDSTANAVLLIKRMSKQRTI 238
Qy 266 LISLHQRSDIFRLFDVLVLLMTSGTPIYGAAGQOVFTSIGHPCPRYSNPADFVDLT 325
Db 239 IFSIHQPRYSIFKLPDSTLLASGRIMFHPGPAQALGYFESAGYCEAYNNPADFFLDII 298
Qy 326 SIDRS-----KEREVATVEK-----AQSIALFLKRYOGFDDFL--WKAKEKELN 369
Db 299 NGDSTAVALLNREDFKATEIIEPSKODKPLIEKLAIEYVN-----SSFYKETAELHQLS 353
Qy 370 TSTHTVSLTLTODTDCGTAVELPGMIEPSTLIRQISNDFRDLPTLLIHGSEACMSLI 429
Db 354 GGEKKKKITVFKESYTTSS-----FCHQLRWVSKRSFKNLGNPQASIAQIIVTVVLGLV 408
Qy 430 IGFLYVGHGAKOLSFMDDTALLFMIGALLPENVILDVYSKCHS-----ERSMLYX 479
Db 409 IGALYFGLKNDSTGIGNRAGVLFPL-----TTNQCFSVSASVELFVVEKKLFIH 457
Qy 480 ELEDGLYTAGPYFPFAKILGE-LPEHCAYVIYIAMPYIWLTLNRPVPELFLHLHLVWLTV 538
Db 458 EYISGYRVSSYFLGKLSLDLPMRLPSIIFLCIYFVWLGLKPKADAFVVMFTLMVVA 517
Qy 539 FPCRMTALASAMLPFFHMSFFCNALYNSFYLTAGFMINDNL--WIVPAMISKLSFLR 596
Db 518 YSASVWALAIAGOSVSVATLMTICFVPMIFSGILVNLTTIASWL--SWLQYFSIPR 575
Qy 597 WCFSGLMQIQFNGLVTTQIG-----NFTSILGDTMI--SAMDLSHPYAIYIYI 647
Db 576 YGFTALQHNFEFLQNCPCGLNATGNNPCNYA--TCTGGEYLVKQIGDLSFWMGLMKHVALA 634
Qy 648 GISYGFLEFLYLSLKLKOKS 668
Db 635 CMVIFLITAYLKLFLKXYS 655

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